PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Ann	licant's or agent's file reference					
P1370WOD		FOR FURTHER A	FOR FURTHER ACTION See Form PCT/IPEA/416			
International application No. International fill PCT/GB2004/003363 04.08.2004		International filing date 04.08.2004	(day/month/year)	Priority date (day/month/year) 21.08.2003		
	International Patent Classification (IPC) or national classification and IPC G01N35/00					
	licant E SECRETARY OF STATE FO	R DEFENCE DSTL e	t al.			
1.	Additionty diffee Afficie 35 and in	ansimited to the applicar	it according to Article	this International Preliminary Examining 36.		
2.	This REPORT consists of a tota	l of 8 sheets, including t	his cover sheet.			
З.	This report is also accompanied	by ANNEXES, comprisi	ng:			
	a. sent to the applicant and	to the International Bure	eau) a total of sheets	as follows:		
	☐ sheets of the descrip and/or sheets contain Administrative Instru	ition, claims and/or drawining rectifications authorictions).	ngs which have been zed by this Authority	amended and are the basis of this report (see Rule 70.16 and Section 607 of the		
	☐ sheets which supers beyond the disclosur Supplemental Box.	ede earlier sheets, but w e in the international app	hich this Authority co dication as filed, as in	nsiders contain an amendment that goes adicated in item 4 of Box No. I and the		
		Bureau only) a total of (i ables related thereto, in one Listing (see Section 80	'OMNI ITAK KASASAIA TAI	nber of electronic carrier(s)) , containing a rm only, as indicated in the Supplemental re Instructions).		
4.	This report contains indications	relating to the following i	tems:			
	Box No. I Basis of the o	ninion				
	☐ Box No. II Priority	pillion				
		ment of oninion with reas	ard to novolty, invent	ve step and industrial applicability		
	☐ Box No. IV Lack of unity of	of invention	ard to novelty, inventi	ve step and industrial applicability		
	Box No. V Reasoned sta		2) with regard to nove s supporting such sta	elty, inventive step or industrial tement		
	☐ Box No. VI Certain docum		•			
	☐ Box No. VII Certain defect	s in the international app	lication			
	☐ Box No. VIII Certain obser	vations on the internation	nal application			
Dat	e of submission of the demand		Date of completion of	f this report		
21.	21.06.2005		06.12.2005			
Name and mailing address of the international preliminary examining authority:		Authorized Officer				
hiel	European Patent Office - P. NL-2280 HV Rijswijk - Pays Tel. +31 70 340 - 2040 Tx: Fax: +31 70 340 - 3016	Bas	Cantalapiedra, 1 Telephone No. +31 7	0 340-4260		

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	Box I	No. I	Basis of the report
1.	With i	regard unless	to the language , this report is based on the international application in the language in which it was otherwise indicated under this item.
	ד □ v	This rep which is	port is based on translations from the original language into the following language , s the language of a translation furnished for the purposes of:
		□ pub	rnational search (under Rules 12.3 and 23.1(b)) lication of the international application (under Rule 12.4) rnational preliminary examination (under Rules 55.2 and/or 55.3)
2.	have	been :	to the elements * of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this priginally filed" and are not annexed to this report):</i>
	Desc	ription	, Pages
	1-44	•	as originally filed
	Clain	ns, Nur	nbers
	1-24		as originally filed
Drawings, Sheets		Sheets	
	1/10-	10/10	as originally filed
		a sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.			mendments have resulted in the cancellation of:
			description, pages claims, Nos.
			drawings, sheets/figs sequence listing <i>(specify)</i> :
			table(s) related to sequence listing (specify):
4.	had	not be	eport has been established as if (some of) the amendments annexed to this report and listed below en made, since they have been considered to go beyond the disclosure as filed, as indicated in the otal Box (Rule 70.2(c)).
			description, pages claims, Nos.
		□ the	e drawings, sheets/figs e sequence listing <i>(specify)</i> :
			y table(s) related to sequence listing <i>(specify)</i> :
	*	If it	em 4 applies, some or all of these sheets may be marked "superseded."

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		No. III Non-establishment of licability	opiı	nion with regard to novelty, inventive step and industrial		
۱.	The obvi	ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:				
		the entire international application,				
	\boxtimes	claims Nos. 24				
		because:				
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):				
		the description, claims or drawing that no meaningful opinion could	ngs <i>(</i> d be	indicate particular elements below) or said claims Nos. are so unclear formed (specify):		
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
	\boxtimes	no international search report h	as b	een established for the said claims Nos. 24		
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
		the written form		has not been furnished		
				does not comply with the standard		
		the computer readable form		has not been furnished		
				does not comply with the standard		
		the tables related to the nucleo not comply with the technical re	tide a equir	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.		
		See separate sheet for further	detai	ils		

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims 1-23

Inventive step (IS)

Yes: Claims

No: Claims

Industrial applicability (IA)

Yes: Claims

1-23

1-23

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item IV Lack of unity of invention

This Authority considers that there are 2 inventions covered by the claims indicated as follows:

- I: Claims 1-23 directed to an apparatus for processing a fluid sample
- II: Claim 24 directed to a lid comprising a membrane

The reasons for which the inventions are not so linked as to form a single general inventive concept, as required by Rule 13.1 PCT, are as follows:

The prior art has been identified as document D2: WO 94/18565 and discloses:

An apparatus for processing a fluid sample comprising:

A platform (D2, features 14 and 15) comprising: a chamber suitable for receiving a sample (D2, feature 2);

An arm capable of being raised and lowered (D2, feature 11) and including means for removably attaching to the functional component such that said component may be raised and lowered with the arm (D2, pag 5, line 5-8); and a means for moving the platform such that any chamber or functional component may be aligned with respect to the arm (D2, pag 7, line 15-36).

It follows that the following technical feature of claims 1-23 make a contribution over the prior art and can be considered as a special technical feature within the meaning of Rule 13.2 PCT:

The platform includes a functional component, that can be grasped by the arm.

The problem solved by this special technical feature can therefore be construed as: to have the possibility of perform a plurality of operations with the same robotic arm (using the cutter or the sheath)

It follows that the following technical feature of claim 24 make a contribution over the prior

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art and can be considered as a special technical feature within the meaning of Rule 13.2 PCT:

In that there is a lid comprising a membrane.

The problem solved by this special technical feature can therefore be construed as: to have a device for closure of a vessel.

Consequently, neither the objective problem underlying the subjects of the claimed inventions, nor their solutions defined by the special technical features allow for a relationship to be established between the said inventions, which involves a single general inventive concept.

In conclusion, the groups of claims are not linked by common or corresponding special technical features and define 2 different inventions not linked by a single general inventive concept.

The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: US-A-5 164 318 (MIMURA TOMONORI ET AL) 17 November 1992 (1992-11-17)
- D2: WO 94/18565 A (LABSYSTEMS OY; TUUNANEN JUKKA (FI)) 18 August 1994 (1994-08-18)
- 1)The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1 and 18 is not new in the sense of Article 33(2) PCT.

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Claim 1:

The document D1 discloses (the references in parentheses applying to this document):

An apparatus for processing a fluid sample comprising:

A platform (D1, feature 2) comprising: a chamber suitable for receiving a sample (D1, feature 22); and a functional component (D1, feature 9);

An arm capable of being raised and lowered (D1, feature 6) and including means for removably attaching to the functional component such that said component may be raised and lowered with the arm (D1, feature 6)); and a means for moving the platform (the platform in D1 is a carrying rotary disk, which implicitly implies that it has means to rotate the disk, and therefore for moving the platform) such that any chamber or functional component may be aligned with respect to the arm (D1, feature 2 and figures 9, where the functional component may be aligned with the arm by rotating the disk and the arm).

Claim 18:

The document D2 discloses (the references in parentheses applying to this document):

A method for processing a fluid sample wherein the method comprises: placing a sample comprising an analyte into a first chamber located on a platform of an apparatus (D2, feature 2 and fig 4, representing the whole platform of the apparatus); binding the analyte to a binding material to form an analyte-binding material complex (D2, pag 5, line 25-40)

lowering means for reversibly attracting said complex into said first chamber and allowing the complex to be attracted to said means (D2, pag 5, line 25-40);

raising said means from the first chamber (D2, pag 5, line 25-40);

moving said platform such that a second chamber is now aligned with the means for reversibly attracting said complex (D2, pag 7, line 15-36)

lowering said meas for reversibly attracting said complex into the second chamber and allowing the complex to detract from said means (D2, pag 7, line 15-36);

characterized in that the analyte is subjected to a physical processing step either in the first chamber or in the second chamber (D2, pag 8, line 4-6, where the first chamber or second chamber are the wells of the plates of the cassette, and the pre-heating will be

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done in those chambers).

2) Dependent claims 2-17 and 19-23 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1 and D2 and the corresponding passages cited in the search report.